| Application | on/Con | trol | No. |
|-------------|--------|------|-----|
|-------------|--------|------|-----|

10/786,036 Examiner

Hanh Phan

Applicant(s)/Patent under Reexamination

YANG ET AL.

**Art Unit** 

2613

Rejected **Allowed** 

(Through numeral) Cancelled Restricted

Non-Elected N Interference

**Appeal** Α 0 Objected

| Total Color   | Claim    | Date     |           |          |                |  |  | $\neg$   | Claim Date      |          |          |          |              |                |          |                 | 7            | Γ        | Cla    | im T            | Date     |          |             |          |  |  |  |  |              |  |          |               |              |
|---|----------|----------|-----------|----------|----------------|--|--|--|-----------------|----------|----------|----------|--------------|----------------|----------|-----------------|--------------|----------|--------|-----------------|----------|----------|-------------|----------|--|--|--|--|--------------|--|----------|---------------|--------------|
| (1) =   51  |          | 2        | Т         | _        | <del>-</del> ĭ | 1  | _  | $\neg$   |                 | $\dashv$ |          |          | $\neg$       |                | Т        | Ť               | <u> </u>     | $\neg$   | Т      | $\neg \neg$     | $\dashv$ | $\vdash$ | <u> </u>    |          | $\neg$   |  | Т  | Ť  | Ť            | $\Box$   | Т        | Т             | ᅱ            |
| (1) =   51  | Original | 7/8/0S   |           |          |                |  |  |  |                 |          | Final    | Original |              |                |          |                 |              |          |        |                 |          |          | Final       | Original |  |  |  |  |              |  |          |               |              |
| C. 2 = 1     102       3 = 2     103       4 = 1     103       53 = 1     103       6 = 1     55       10 = 1     105       10 = 2     105       10 = 3     103       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       110     11       110     11       111     11       112     11       111     11       111     11       111     11       111     11       111     11       111     11       111     11       111     11       111     11       111     11       11  | (13)     | =        | _         | 寸        | 寸              | 寸  |  | 一  | 十               | $\dashv$ |          | 51       | $\exists$    | 一              | 寸        | $\dashv$        | 十            | _        |        | 1               | ヿ        | F        |             | 101      | 寸  | $\exists$  | $\neg$   |  | ヿ            |  |          | ┪             | $\neg$       |
| 1   |          |          | $\dashv$  | $\neg$   | 寸              | $\neg$   | $\dashv$   | $\dashv$   | 十               |          |          |          |              | 一              | 一        | 寸               | 十            | 7        |        | _               | 7        | F        |             |          | 一  | 寸  | $\neg$   | $\neg$   | $\neg$       | ヿ  | T        | $\neg$        | $\neg$       |
| 104   |          | -        | 寸         | ヿ        | $\neg$         | _  | $\neg$   | $\neg$   | 十               | _        |          |          |              | $\dashv$       | 一        | -               | 7            | _        | $\neg$ | $\neg$          | ┪        | ı        |             |          |  | T  |  |  |              | T  | T        | ヿ             | $\neg$       |
| 5   |          |          | $\dashv$  | -        | $\dashv$       |  | $\neg$   | $\neg$   | $\neg$          | $\dashv$ |          |          |              | $\neg$         | $\dashv$ | $\dashv$        | _            |          | 寸      | •               | ┪        | r        | $\neg \neg$ |          | 一  | $\neg$   | 寸  | T  |              | 寸  | T        | ヿ             |              |
| 56  |          | -        | -         | $\dashv$ | $\dashv$       | 寸  | T  | ᅥ  |                 | $\dashv$ |          |          |              |                | $\neg$   | 寸               | 寸            | 寸        | 一      | 7               | ┪        | <u> </u> |             |          | $\neg$   |  | 一  | $\neg$   |              | $\neg$   | ヿ        | コ             |              |
| 107   |          | -        | 一         | $\dashv$ | 寸              | 一  |  | $\neg$   | $\neg$          | $\neg$   |          |          |              |                | _        | 7               | $\dashv$     | $\dashv$ |        | 十               | ┪        |          |             |          |  |  | $\neg \uparrow$                                  |  |              | $\neg$   | $\neg$   | ヿ             |              |
| 108   |          | -        | _         | $\neg$   | 寸              | 一  |  |  | $\dashv$        | ヿ        |          |          |              |                |          | $\neg$          | 寸            | ┪        | ヿ      |                 | 7        | Ī        |             |          | $\neg$   | ヿ  | ヿ  |  |              | 一  |          | ヿ             |              |
| 10  |          | -        | 1         | _        | $\neg$         | $\neg$   |  |  | 寸               | _        |          |          |              |                | 寸        | $\neg \dagger$  | 7            | 7        | 寸      |                 | $\neg$   | r        |             |          |  | $\Box$   |  |  |              |  | $\neg$   | $\neg$        |              |
| 10  |          | -        |           | 寸        | ヿ              |  |  |  | $\neg$          | 1        |          |          |              |                | ヿ        |                 | 7            | 1        | ヿ      |                 |          | Г        |             |          |  |  | $\neg$   |  |              | $\neg$   |          | $\neg$        | $\neg$       |
| 10  |          | Ξ        | $\neg$    |          |                |  |  |  | $\neg$          | _        |          |          |              |                |          |                 | $\neg$       | 寸        | $\neg$ |                 |          |          |             | 110      |  |  |  |  |              |  |          |               |              |
|   |          | =        | $\neg$    |          | $\neg$         |  |  |  |                 |          |          | 61       |              |                | T        |                 |              |          |        |                 |          | .[       |             | 111      |  |  |  |  |              |  |          | $\Box$        |              |
| 13  | 12       | =        |           |          | $\neg$         |  |  |  |                 |          |          | 62       |              |                |          |                 | $\Box$       |          |        |                 |          |          |             |          |  |  |  |  |              |  |          | $\Box$        |              |
| 73  |          | =        |           |          | $\Box$         |  |  |  |                 |          |          | 63       |              |                |          |                 |              |          |        |                 |          |          |             |          |  |  |  |  |              |  |          | $\Box$        |              |
| (   | 14       | 2        |           |          | 一              |  |  |  |                 |          |          |          |              |                |          |                 |              |          |        |                 |          |          |             |          |  |  |  |  |              |  |          |               |              |
| To   16   17   18   17   18   18   18   18   18   |          | _        |           |          |                |  |  |  |                 |          |          |          |              |                |          |                 |              |          |        | $oxed{oxed}$    |          |          |             |          |  |  |  |  |              |  |          |               | $\square$    |
| 1   | 5 16     |          |           |          |                |  |  |  |                 |          |          |          |              |                |          | $\Box$          | $\Box$       |          |        |                 | _]       | ·[       |             |          |  |  |  |  |              | $\perp$  |          |               |              |
| 17  |          | =        |           |          |                |  |  |  |                 |          |          |          |              |                |          |                 |              |          |        |                 |          | L        |             |          |  |  |  |  |              |  |          |               | Ш            |
| 120   | 18       |          |           |          |                |  |  |  |                 |          |          |          |              |                |          |                 |              |          |        |                 |          | L        |             |          |  |  |  |  |              | $\Box$   |          |               | L            |
| 21     22     71     72     121     122     123     123     123     123     123     123     124     124     124     124     124     124     124     125     126     126     126     126     127     127     127     127     127     127     127     127     128     128     128     128     128     128     129     129     129     129     130     130     130     130     131     132     132     132     132     132   | 8 19     | =        |           |          |                |  |  |  |                 |          |          | 69       |              |                |          |                 |              |          |        |                 |          |          |             |          |  |  |  |  |              |  | $\perp$  | $\Box$        | Ш            |
| 22     3     122     123     122     123     124     123     124     124     124     124     124     124     124     124     124     125     125     125     126     126     126     127     127     127     128     128     128     128     128     128     128     129     129     129     130     130     130     130     131     131     131     131     132     133  | 20       |          | 1         |          |                |  |  |  |                 |          |          |          |              |                |          |                 |              |          |        |                 | ╝        | L        |             |          |  |  |  |  |              |  | _        | _             | $oxed{oxed}$ |
| 23   123   124   124   124   124   124   125   126   125   126   125   126   126   127   127   128   129   128   129   129   129   129   129   129   129   130   131   131   131   131   131   131   131   132   133   13   |          |          |           |          |                |  |  |  |                 |          |          |          |              |                |          |                 |              |          |        |                 |          | L        |             |          |  |  |  |  |              |  | _        |               |              |
| 24     74     124     125     125     125     125     125     126     126     126     126     127     127     127     127     127     127     127     128     128     128     129     129     129     129     129     130     130     130     131     131     131     131     132     132     132     133     133     133     133     133     133     133     134     134     134     134     134     134     134     135     135     135     136     136     136     136     137     137     137     137     137     137     138     139     139     140     140     141     141     141     142     142     142     142     142     143     144     144     144     145     146     146     146     146     147     147     148     148     148     148     148     148     148     148     148   | 22       |          |           |          |                |  |  |  |                 |          |          |          |              |                |          |                 |              |          |        |                 |          | L        |             |          |  |  |  |  |              |  | _        | _             | _            |
| 25     75     125     126     126     126     127     127     127     127     128     129     129     129     129     130     130     130     130     130     130     130     131     131     132     132     132     132     132     133     133     134     134     134     134     134     134     135     135     135     135     135     135     136     137     137     137     137     138     138     139     139     140     141     141     141     141     141     141     141     142     142     142     142     143     144     144     144     144     144     144     144     144     144     144     145     146     146     146     146     146     146     146     147     148     148     148     148     148     148     148     148     148     148     148     148     148   |          |          |           |          |                |  |  |  |                 |          |          |          |              |                |          | $\perp$         | $\Box$       | $\perp$  |        |                 | _        | · L      |             |          |  |  |  |  |              |  | $\dashv$ | _             | _            |
| 26   76   126   127     28   78   128   129     30   80   130   129     31   81   131   131     32   82   132   132     33   84   134   134     35   85   135   135     36   86   136   137     38   87   137   138     39   90   140   141     41   91   141   141     42   92   142   143     43   94   144   144     45   96   146   147     47   97   148   148   |          |          |           |          |                |  |  |  |                 |          |          |          | L            |                |          | $\Box$          | _            |          |        |                 |          | L        |             |          | _  | Ш  |  |  |              | Ш  |          | _             |              |
| 27     28     77     128     128     128     128     128     128     129     129     129     129     130     130     130     130     130     131     131     131     131     131     132     132     132     133     133     133     133     133     133     134     134     134     134     134     134     134     135     135     135     136     136     137     137     138     138     138     138     138     138     139     140     140     141     141     142     142     142     143     144     144     144     144     144     145     146     146     146     146     146     146     147     148  |          |          |           |          |                |  |  |  |                 | _        |          |          |              | Ш              |          | $\dashv$        | $\downarrow$ | _        |        |                 | _        | L        |             |          |  | Ш  |  |  | <u> </u>     |  | _        | _             | <u> </u>     |
| 28   78   128     29   80   129     30   81   130     31   81   131     32   83   132     33   83   133     34   84   134     35   85   135     36   86   136     37   88   138     39   88   138     39   90   140     41   91   141     42   92   142     43   94   144     45   96   145     46   96   146     47   97   147     48   98   148   |          |          |           |          |                |  |  |  |                 | _        | L        |          |              |                |          |                 | _            | _        |        |                 |          | L        |             |          |  |  |  |  | _            |  | _        |               | <u></u>      |
| 29     79     129       30     80     130       31     81     131       32     83     132       33     84     133       34     85     135       35     85     135       36     86     136       37     88     137       38     88     138       39     89     139       40     90     140       41     91     141       42     92     142       43     94     144       44     94     144       45     95     145       46     96     146       47     97     147       48     98     148   |          |          |           |          |                |  |  |  |                 |          |          |          |              |                |          | $\Box$          | _            | _        | _      |                 |          | L        |             |          | L_   | Ш  |  |  |              | _  |          | _             | _            |
| 30 80   31 31   32 33   34 35   36 85   37 87   38 136   39 89   40 90   41 91   42 92   43 94   44 94   45 96   48 98   146 97   148 148   |          | Ш        |           |          |                | Ш  | $oxed{oxed}$                                     |  |                 | _        | L        |          | _            | _              |          |                 | _            | 4        | _      | Ŀ               | _        | -        |             |          |  |  |  |  | _            |  | $\dashv$ | _             | <u> </u>     |
| 31 81   32 131   33 132   33 133   34 134   35 85   36 86   37 88   39 88   40 90   41 91   42 92   43 93   44 94   44 94   45 96   47 97   48 98   147 148   |          | Ш        |           | $\Box$   | _              |  | <u> </u>   |  | Ш               | _        |          |          |              |                |          |                 | _            | _        |        | $\perp$         | 4        | ŀ        |             |          | <u> </u>   |  | _  | _  | _            | <u> </u>   |          | _             | -            |
| 32 82   33 132   34 133   35 85   36 86   37 87   38 88   39 88   40 90   41 91   42 92   43 93   44 94   44 94   45 96   46 96   47 97   48 138   139 139   140 141   141 142   94 144   45 96   46 96   47 97   48 148  |          | L.       |           | _        | _              |  | _  |  |                 | _        |          |          |              | Ш              |          | $\dashv$        | _            |          | _      | _               | _        | L        |             |          | _  |  |  | _  | Ŀ            | <u> </u>   | $\dashv$ |               |              |
| 33   34   35   36   35   36   37   38   37   38   39 <td< td=""><td></td><td>Ш</td><td>_</td><td>_</td><td>_</td><td></td><td>_</td><td></td><td><math>\Box</math></td><td>_</td><td></td><td></td><td><u> </u></td><td>Н</td><td></td><td></td><td>_</td><td>-</td><td>_</td><td><math>\vdash</math></td><td>4</td><td>-</td><td></td><td></td><td></td><td>_</td><td></td><td>_</td><td>_</td><td><u> </u></td><td></td><td></td><td></td></td<> |          | Ш        | _         | _        | _              |  | _  |  | $\Box$          | _        |          |          | <u> </u>     | Н              |          |                 | _            | -        | _      | $\vdash$        | 4        | -        |             |          |  | _  |  | _  | _            | <u> </u>   |          |               |              |
| 34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148   |          | Н        | $\sqcup$  |          | _              | Ш  | <u> </u>   | $\vdash$   | $\sqcup$        | _        |          |          | <b> </b>     | Н              | $\vdash$ | $\vdash$        | -            |          | _      | $\vdash$        | -        | -        |             |          | <u> </u>   | -  | $\vdash$   | _  | $\vdash$     | _  |          |               | -            |
| 35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148   |          | $\vdash$ | $\square$ |          | _              |  | _  |  |                 | $\dashv$ | ļ        |          |              | Н              | -        |                 |              | $\dashv$ |        |                 | -        | -        |             |          | <u> </u>   | H  | $\vdash$   |  | ⊢            | $\vdash$   | -        |               | -            |
| 36   37   86   136   137     38   88   138   138   138     39   90   140   140   140   140     41   91   141   141   141   141   141   141   142   142   142   143   144   144   144   144   144   144   145   146   147   147   147   148  |          | Н        | <u> </u>  |          | $\dashv$       | <u> </u>   | <b> </b>   |  | $\dashv$        |          |          |          | <del> </del> | $\vdash$       | $\dashv$ | $\vdash$        | $\dashv$     |          | -      | $\vdash$        | $\dashv$ | ŀ        |             |          |  | $\vdash\vdash$                                   | -  | $\vdash$   | -            | $\vdash$   | $\dashv$ | $\vdash$      | $\vdash$     |
| 37   87   137     38   88   138     39   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148   |          | $\vdash$ | $\dashv$  | -        |                | <del>                                     </del> | -  | <u> </u>   |                 | $\dashv$ | -        |          | ₩            | $\vdash$       | $\vdash$ | $\vdash \vdash$ | -            | -        |        | $\vdash$        | $\dashv$ | ŀ        |             |          | $\vdash$   | H  |  | $\vdash$   | $\vdash$     | -  |          | _             | $\vdash$     |
| 38   88   138     39   90   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148   |          | $\vdash$ | $\vdash$  | $\dashv$ | $\dashv$       | H  | $\vdash$   | -  | $\vdash \vdash$ | $\dashv$ |          |          | $\vdash$     |                | -        | $\vdash$        |              |          |        | -               | $\dashv$ | -        |             |          | -  | -  | $\vdash$   | -  | $\vdash$     | <del>                                     </del> | -        |               | -            |
| 39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   |          | -        | Н         |          | $\dashv$       | ├  | -  | -  | $\vdash$        | $\dashv$ |          |          | ├            | $\vdash$       |          | $\vdash \vdash$ |              |          | -      | -               | $\dashv$ | -        |             |          | $\vdash$   | $\vdash$   | -  | $\vdash$   | ┢            | $\vdash$   | $\vdash$ | _             | $\vdash$     |
| 40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148   |          | $\vdash$ | Н         | $\vdash$ | $\dashv$       | $\vdash$   | $\vdash$   | -  | $\dashv$        | -        | $\vdash$ |          | <u> </u>     | Н              | Н        | $\vdash$        |              | $\dashv$ | _      | <del>-</del> -  | $\dashv$ | H        | •           |          | $\vdash$   | -  | $\vdash$   | -  | $\vdash$     |  | $\vdash$ | _             | <del> </del> |
| 41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   |          | $\vdash$ | Н         | -        | -              | $\vdash$   | -  | -  | $\vdash$        | $\dashv$ | -        | 90       | $\vdash$     | $\vdash$       | $\vdash$ | $\vdash$        | $\dashv$     | -        | _      | $\vdash$        | $\dashv$ | H        |             | 1/10     | -  | <del>  </del>                                    | $\vdash$   | $\vdash$   | <del> </del> | $\vdash$   | $\vdash$ | $\overline{}$ | <del> </del> |
| 42 92   43 93   44 94   45 95   46 96   47 97   48 98   | 40       | $\vdash$ | Н         | -        | $\dashv$       | <u> </u>   | $\vdash$   | $\vdash$   | $\vdash \vdash$ | $\dashv$ |          | 90       |              | -              | Н        |                 | $\dashv$     | $\dashv$ |        | $\vdash$        | $\dashv$ | H        |             | 1/11     | $\vdash$   | -  |  | $\vdash$   | $\vdash$     | <del>                                     </del> | $\vdash$ |               | -            |
| 43 93   44 94   45 95   46 96   47 97   48 98   |          | +        | $\vdash$  | -        |                | <del> </del>                                     | <del>  -</del>                                   | -  | $\vdash$        | $\dashv$ |          |          | $\vdash$     | Н              | H        | $\vdash$        | $\dashv$     | $\dashv$ |        | $\vdash$        | $\dashv$ | H        |             |          | $\vdash$   | -  | $\vdash$   | -  | -            | ┢  | H        | $\overline{}$ | $\vdash$     |
| 44 94   45 95   46 96   47 97   48 98   |          | $\vdash$ | $\vdash$  | $\dashv$ | $\vdash$       | $\vdash$   | <del> </del>                                     | -  | $\vdash \vdash$ | $\dashv$ | -        |          | $\vdash$     | $\vdash\vdash$ | Н        | $\vdash$        | $\dashv$     | -        | _      | $\vdash \vdash$ | $\dashv$ | H        |             |          | -  | Н  | -  | ┢  | $\vdash$     |  | Н        | -             | $\vdash$     |
| 45 95   46 96   47 97   48 98   |          | $\vdash$ | Н         | Н        | $\vdash$       | <del>                                     </del> | $\vdash$   | -  | $\vdash$        | -        | -        |          | $\vdash$     | Н              | $\vdash$ | $\vdash$        | $\dashv$     |          |        | $\vdash \vdash$ | $\dashv$ | -        |             |          | -  | ╁  | $\vdash$   | <del>                                     </del> | $\vdash$     | $\vdash$   | Н        |               | -            |
| 46 96   47 97   48 98   |          | $\vdash$ | $\vdash$  | $\vdash$ | $\vdash$       | $\vdash$   | -  | -  | $\vdash$        |          |          |          |              | $\vdash$       | Н        | Н               | -            | $\dashv$ |        | $\vdash$        | $\dashv$ | H        |             | 145      | $\vdash$   | $\vdash$   | -  | $\vdash$   | $\vdash$     | <del>                                     </del> | Н        | _             | $\vdash$     |
| 47  |          | +        | Н         | $\vdash$ |                | <del> -</del>                                    | ┢  | ├─   | $\vdash$        | $\dashv$ |          |          | -            | $\vdash$       | H        | Н               | -            |          |        |                 | $\dashv$ | -        |             | 146      | $\vdash$   | -  | ╁  | -  | $t^-$        | $\vdash$   | $\vdash$ | _             | $\vdash$     |
| 48 98 148   | 40       | +        | H         | $\vdash$ |                | $\vdash$   | ⊢  | <del> </del>                                     | ┝╌┤             | $\dashv$ | -        | 97       | +-           | $\vdash$       |          |                 | $\dashv$     | $\dashv$ |        |                 | $\dashv$ | .  -     |             |          | ┢  | $\vdash$   | <del>                                     </del> |  | $\vdash$     | $\vdash$   |          |               | $\vdash$     |
|   |          | $\vdash$ | Н         | Н        |                | -  | <del>                                     </del> | $\vdash$   | H               | $\dashv$ |          |          | $\vdash$     | ┥              | Н        | Н               |              | $\dashv$ |        | $\vdash$        | $\dashv$ | H        |             | 148      | -  | <del>                                     </del> | $\vdash$   | -  | H            | $\vdash$   | H        | $\overline{}$ | $\vdash$     |
|   | 49       | $\vdash$ | H         | Н        | -              | <del> </del>                                     | <del>                                     </del> | -  | $\vdash$        | $\dashv$ |          | 99       | $\vdash$     |                |          | $\vdash$        |              | -        |        |                 | $\dashv$ | H        |             | 149      | $t^-$  | t  | -  | $\vdash$   | 1            | $\vdash$   | Н        | $\overline{}$ | $\vdash$     |
| 50 100 150 150  | 50       | +-       | Н         | $\vdash$ |                |  | 1  | <del>                                     </del> | H               | $\dashv$ | 1        |          | $\vdash$     | $\vdash$       | Н        | H               | $\dashv$     |          |        | $\vdash$        | $\dashv$ | ۱        | _           | 150      | <del>                                     </del> | <del>                                     </del> | Н  | $\vdash$   |              | $\vdash$   | П        | _             | $\vdash$     |